

chemistry

A Level Chemistry Awarding Body: Edexcel

Course content

In Chemistry you will explore your ability to analyse and explain data, recognise trends and patterns and solve problems which have relevance in any work environment.

This specification provides a modern course which will help you to relate what can appear to be obscure knowledge with the world around you. It shows you the relationship between the development of the subject and its social, economic, environmental and technological applications by using specific in context examples. You can also develop your knowledge through practical investigation and test your own understanding by explaining and evaluating your findings.

Unit 1:

You will learn about the following: Atomic structure & the periodic table, bonding & structure, redox, inorganic chemistry, energetics, equilibria, transition metals.

Unit 2:

You will learn about the following: Formulae & amounts of substance, kinetics, organics, modern analytical techniques.

Assessment

The A Level is assessed through 3 written exams at the end of the year. A minimum of 20% of the marks across both papers will be awarded for mathematics at Level 2 or above. You will receive a separate grade for practical competency by completing a series of practical tasks during the year.

Paper 1: Advanced Inorganic and Physical Chemistry (30%)

Atomic Structure and the Periodic Table, Bonding and Structure, Redox, Inorganic Chemistry Formulae, Equations and Amounts of Substance, Energetics, Equilibrium, Equilibrium II, Acid-base Equilibria, Energetics II, Redox II, Transition Metals.

Paper 2: Advanced Organic and Physical Chemistry (30%)

Bonding and Structure, Redox I, Formulae, Equations and Amounts of Substance, Organic Chemistry I

Modern Analytical Techniques I, Kinetics I, Kinetics II, Organic Chemistry II, Organic Chemistry II, Modern Analytical Techniques II.

Paper 3: General and Practical Principles in Chemistry (40%)

A synoptic paper covering the whole specification. Some questions will assess conceptual and theoretical understanding of experimental methods.

Progression:

Chemistry is often a compulsory AS or A-Level for students wishing to pursue a career in Medicine, Veterinary Science, Dentistry or Pharmacy.

Entry requirements:

Grade 6 in two Science (Core, Additional or Extension) GCSEs, whilst 6 in Maths and 5 in English are recommended. *Thinking of studying more than one A level Science subject or taking A level Science with A level Mathematics? We strongly recommend that students wishing to study more than one A level Science subject, or an A level Science and A level Mathematics subject, have grades 7/8 or above in their GCSE Science subjects and GCSE Mathematics.